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APPLICANT : TAKARA SHUZO CO LTD;

INVENTOR : HAYASHI RIKIMARU;

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TITLE : CHEMICALLY MODIFIED CARBOXYPEPTIDASE AND USE THEREOF

ABSTRACT : PURPOSE: To enable use of chemically modified carboxypeptidase in both an aqueous solution and an organic solvent, by chemically modifying one or more amino groups in carboxypeptidase molecule with a group containing an amphipathic high polymer residue.

CONSTITUTION: An amino acid containing optionally protected amino group or other groups, or a peptide or a reactive derivative thereof at the carboxyl group is reacted with an amino acid containing optionally protected carboxyl group to produce a peptide or a derivative thereof. In this case, a carboxypeptidase containing at least one amino group in the carboxypeptidase molecule, modified with a group containing an amphipathic high polymer residue is used as the catalyst. O-Substituted polyethylene glycol residue is preferable as the amphipathic high polymer residue.

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